

Sn-BASED METAL-COATED STEEL STRIP EXCELLENT IN  
APPEARANCE AND PROCESS FOR PRODUCING SAME

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ABSTRACT OF THE DISCLOSURE

10 A Sn-based metal-coated steel strip excellent in  
appearance comprises a Ni-based metal (such as Ni, a Ni-  
Sn alloy, a Ni-Zn alloy, a Ni-Fe alloy and a Ni-Co alloy)  
preplating layer and a Sn-based metal (such as a Sn-Zn  
alloy) coating formed thereon, and is characterized in  
15 that a Ni emission intensity line and an Fe emission  
intensity line obtained by glow discharge spectroscopy of  
the surface of the coated steel strip satisfy a  
relationship of the formula:  $T_1 \geq T_2$   
wherein  $T_1$  is a sputtering time at the peak of a Ni  
emission intensity line, and  $T_2$  is a sputtering time at  
20 the inflection point of an Fe emission intensity line, or  
a relationship of the formulas:  $T_1 \geq T_2$ , and  $1 \leq T_1/T_2 \leq$   
1.5